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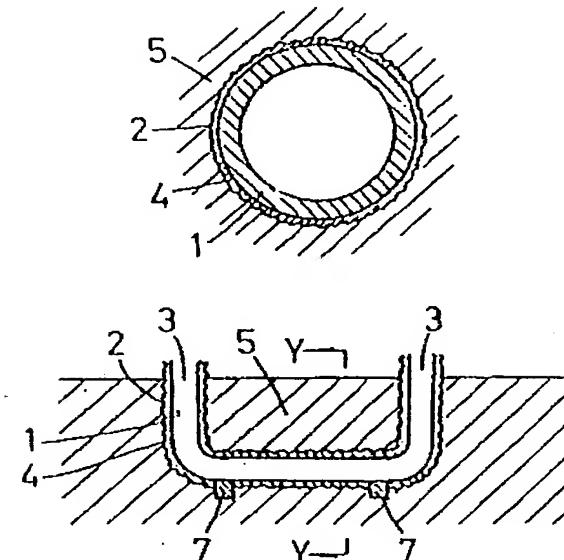
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APPLICANT : AGENCY OF IND SCIENCE & TECHNOLOGY

INVENTOR : SAKAGUCHI MITSUMASA;

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TITLE : GEOTHERMIC EXCHANGING DEVICE



ABSTRACT : PURPOSE: To improve heat conductivity between soil and a heat exchanging pipe and increase room cooling and heating efficiency by a method wherein generation of spaces, generated between the heat exchanging pipe and soil upon burying the heat exchanging pipe into the soil, is reduced.

CONSTITUTION: The outer periphery of the heat exchanging pipe 1, made of a metal bent into U-shape substantially, is surrounded with a soft pipe 2, having flexibility along the whole length thereof, and the heat exchanging pipe is made by a double pipe structure. The heat exchanging pipe 1 is put on bases 7 so as to expose both openings 3 of the pipe above the surface of ground and is buried into the ground. Heat conductive medium 4, having fluidity such as water for example, is poured into a space between the outer periphery of the heat exchanging pipe 1 and the inner periphery of the soft pipe 2 from one end of the soft pipe 2 and, then, both ends of the soft pipe 2 are closed. According to this method, the soft pipe 2 is contacted with the soil 5 closely and generation of heat insulating space is precluded, therefore, heat exchanging (room heating and cooling) efficiency may be improved.

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